

## TOWN OF OCCOQUAN

Town Hall, 314 Mill Street, Occoquan, VA 22125 www.occoquanva.gov | info@occoquanva.gov | (703) 491-1918

#### PLANNING COMMISSION MEETING

#### Tuesday, February 10, 2015 7:00 PM

#### **TOWN HALL - 314 MILL STREET**

There will be a Planning Commission Meeting to Discuss the Following:

- Approval of January 13, 2015 Meeting Minutes
- Site Plan Review, 458 Mill Street (River Park Restroom/Storage Facility)
- Comprehensive Plan Update
- Strategic Plan Discussion
- Planning Commission Meeting Schedule

Joe McGuire
Town of Occoquan Councilmember
Planning Commission Chair



MAYOR ELIZABETH A.C. QUIST

## TOWN OF OCCOQUAN

CIRCA 1734 INCORPORATED 1874 314 MILL STREET, P.O. BOX 195 OCCOQUAN, VIRGINIA 22125 703-491-1918 FAX 703-491-4962 TOWN COUNCIL

PATRICK A. SIVIGNY, VICE MAYOR TYLER C. BROWN J. MATTHEW DAWSON JIM DRAKES JOE MCGUIRE

TOWN MANAGER Kirstyn Barr Jovanovich

CHIEF OF POLICE & TOWN SERGEANT SHELDON E. LEVI

TOWN CLERK GREG HOLCOMB

TREASURER
ABIGAIL BREEDING, C.P.A.

#### STAFF REPORT River Mill Park Site Plan

Applicant: Town of Occoquan Date: February 4, 2015

#### PART I

#### A. EXECUTIVE SUMMARY

The applicant proposes to construct a restroom/storage facility adjacent to and for the use of patrons of the River Mill Park. This staff report evaluates the proposed application as it pertains to conformity with Town ordinances.

#### **B.** DESCRIPTION OF PETITION

The applicant requests approval of the site plan for the River Park Restroom and Maintenance Facility, dated November, 2014, last signed February 2, 2015.

#### C. APPLICABLE REGULATIONS

- 1. Chapter 46 Site Plans
- 2. Chapter 66 Zoning

#### PART II

#### A. ANALYSIS OF EXISTING CONDITIONS

- 1. Site Area:  $\pm 0.88$  acres
- 2. Use: Public Restroom and Storage Facility

- 3. Zone: B-1.
- 4. Location: The referenced property is located at 460 Mill Street, at the terminus of the public road (PWC GPIN 8393-65-2114).
- 5. Buildings/Structures: Single two-story structure – 980 square feet, gross floor area.
- 6. Access: Access is from the Mill Street cul-de-sac.
- 7. Chesapeake Bay Preservation: This site disturbs less than 2,500 square feet and therefore is exempt from the Chesapeake Bay Preservation requirements.
- 8. Stormwater Management and Virginia Stormwater Management Program (VSMP): This site disturbs less than 2,500 square feet and therefore is exempt from the VSMP requirements for water quality and quantity.

#### В. ANALYSIS OF PROPOSED PLAN

The Town of Occoquan (Town) will take maintenance responsibility of a proposed park on the site of the former Fairfax County Water Authority water storage tanks, adjacent to the Occoquan River at the cul de sac for Mill Street. As part of that maintenance responsibility, the Town will require storage options in close proximity to the park. In addition, the Town proposes a stand-alone public restroom at the western edge of Town.

No additional parking or vehicular access is proposed with this site plan, given its proximity to Mill Street. There are, however, 10 parking spaces around the Mill Street cul de sac which can be used for this facility.

No landscaping has been proposed with this site plan, nor is any required.

As noted above, the small area of disturbance (under 2,500 square feet) exempts this project from both Chesapeake Bay Preservation and VSMP requirements.

#### PART III

#### STAFF CONCLUSIONS

The proposed site plan, having been duly reviewed by Town Staff, has been deemed consistent with the applicable provisions of the Town Code. It is therefore Staff's recommendation to grant approval to the above referenced plan, subject to submission of an appropriate lighting plan and approvals from the Virginia Department of Transportation (VDOT), the Prince William County Service Authority (PWCSA), and the Fairfax County Water Authority (FCWA).

Bruce A. Reese, PE, LS - Town Engineer, February 4, 2015 PREPARED BY:



# SIIIE B B BAN FOR BUNER PARK

## RESTROOM & MAINTENANCE FACILITY

458 MILL STREET TOWN OF OCCOQUAN, VIRGINIA

## **ENGINEER:**

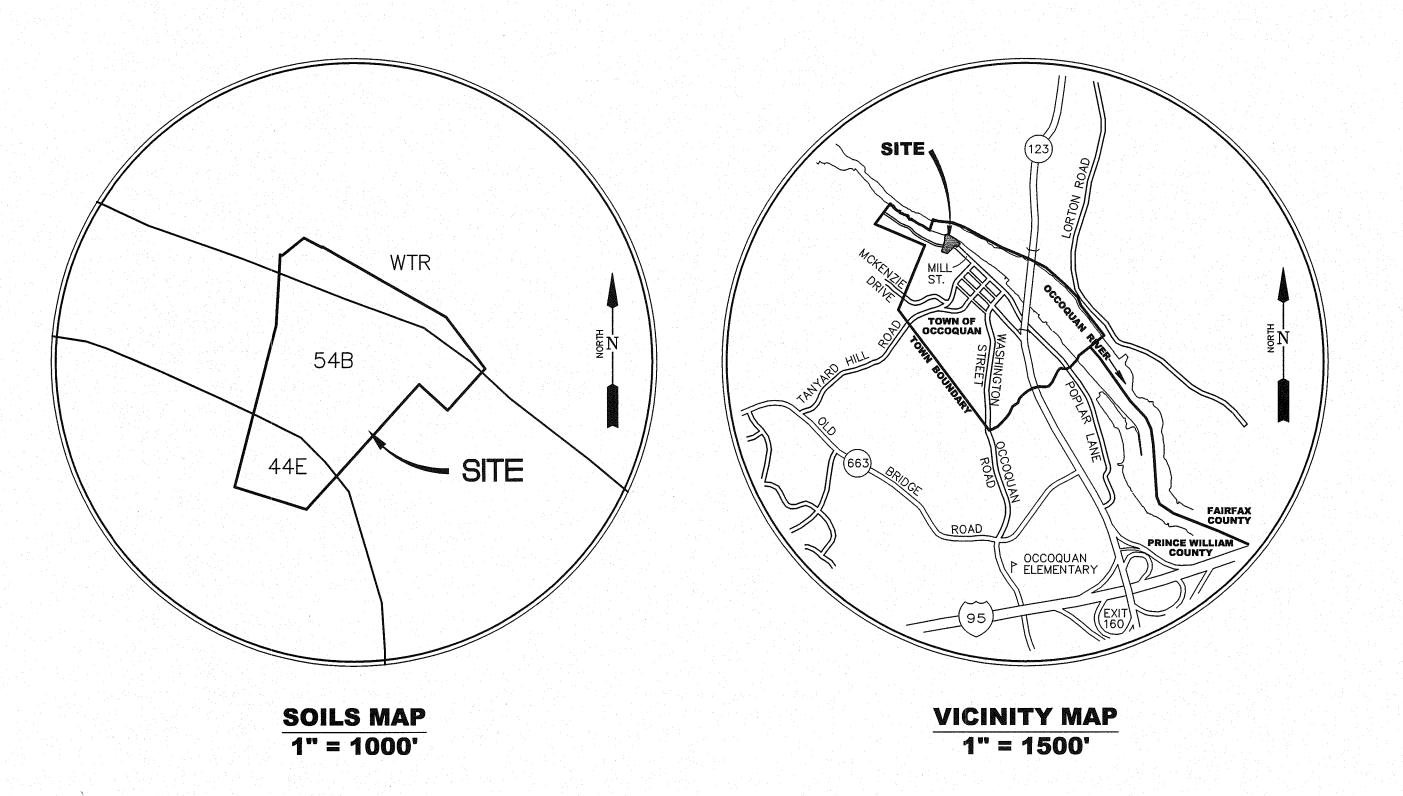
THE ENGINEERING GROUPE, INC. 13580 GROUPE DRIVE, SUITE 301 WOODBRIDGE, VIRGINIA 22192 (703) 670-0985 (TEL) (703) 670-7769 (FAX) CONTACT: MR. MATT WILLIAMS

## **ARCHITECT:**

131 GREAT FALLS ST. FALLS CHURCH, VA 22042 (703) 6538-7100 (TEL) CONTACT: MR. MICHAEL GICK, AIA, MRTPI, LEED AP

## **OWNER/APPLICANT:**

TOWN OF OCCOQUAN 314 MILL STREET PO BOX 195 OCCOQUAN, VA 22125 (703) 491–1918 CONTACT: MRS. KIRSTYN JOVANOVICH, TOWN MANAGER

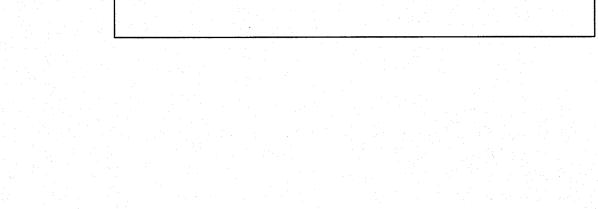


#### **SELECTED SOILS DATA FROM SOIL SURVEY - PRINCE WILLIAM COUNTY, VIRGINIA**

SOILS SYMBOL	SOILS NAME	ERODIBILITY	SLOPE RANGE
44 E	Stumptown/very flaggy loam	Moderate	25% to 50%
54 B	Urban land—Udorthents Complex	Slight	0% to 7%

**DATE PREPARED: NOVEMBER 2014** PREPARED BY: MAW

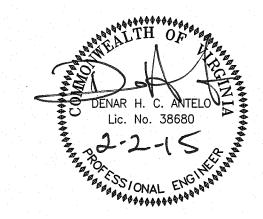
PWCSA S/A PLAN # 15-OCC01-R00



**TOWN APPROVAL BLOCK** 

#### SITE PLAN SHEET INDEX

SHEET NO.	<u>TITLE</u>			
dej <sup>™</sup> er <b>01</b> −e 1 −e 1	COVER SHEET			
02	NOTES, DETAILS & TYPICAL SI	ECTIONS		
03	EXISTING CONDITIONS & UTILIT	TES PLAN		
04	LANDSCAPE ARCHITECTURE PL	.AN		
05	GRADING PLAN			
06	PROFILES			
07-08	PWCSA SHEETS			
09	EROSION & SEDIMENT CONTRO	L PLAN — PHASE	I & II, NOTE	S & DETAILS

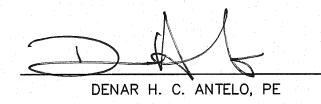


LIGHTING PLAN

#### ENGINEER'S CERTIFICATE

I, DENAR H. C. ANTELO, A PROFESSIONAL ENGINEER IN THE COMMONWEALTH OF VIRGINIA, DO HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THIS PLAN CONFORMS TO ALL APPLICABLE STATE AND LOCAL STANDARDS.





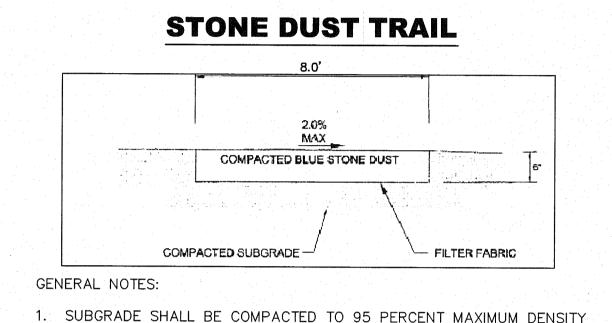


Fredericksburg, VA 22407 PH 540.710.5987 FX 540.710.5988

Woodbridge, VA 22192 PH 703.670.0985 FX 703.670.7769

PH 703.670.0985 FX 703.670.7769

SP-280 SHEET 01 OF 10



PER AASHTO T-99 OR ASTM D-698 STANDARDS AT THE OPTIMUM

2. FOR DRAINAGE CONSIDERATION, THE TRAIL SURFACE SHALL BE

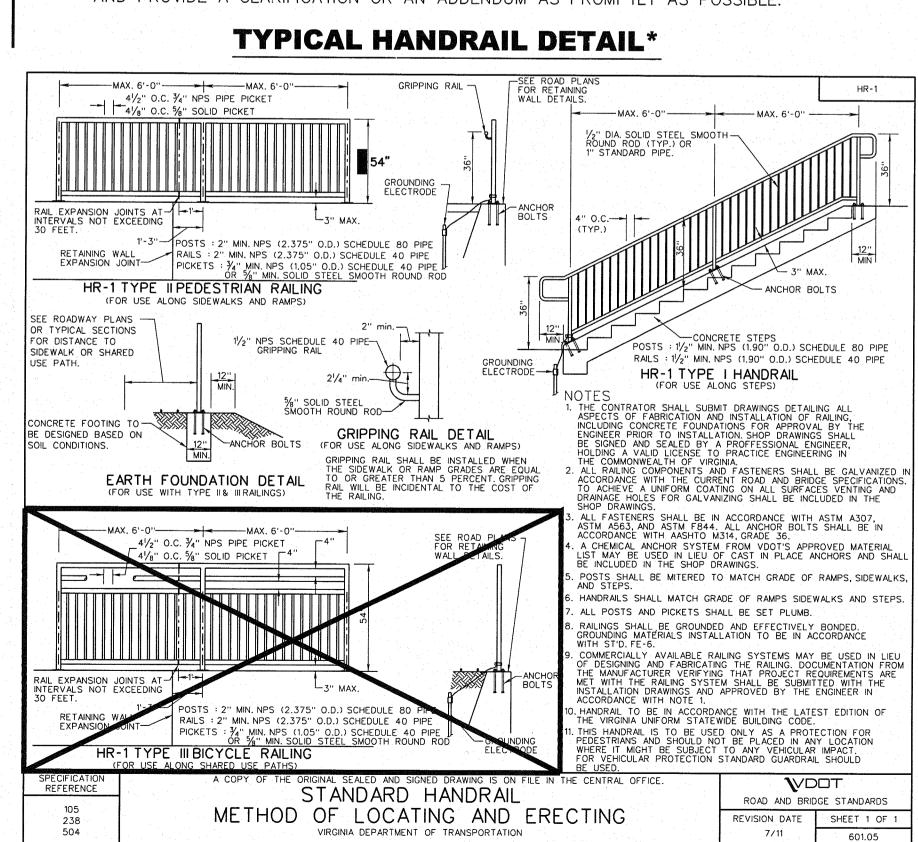
SLOPED TWO PERCENT (2%) MAXIMUM AND ONE PERCENT (1%) MINIMUM

MOISTURE CONTENT.

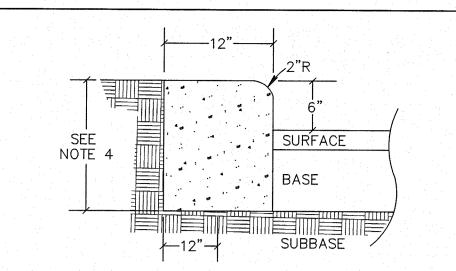
TO LOW SIDE.

## **NOTICE TO CONTRACTORS:**

IF THE CONTRACTOR DETERMINES THAT AN ERROR, DISCREPANCY, OMISSION, ETC. EXISTS ON THE SITE PLAN, THE CONTRACTOR /OWNER SHALL NOTIFY THE ENGINEER PRIOR TO PRECASTING, STAKEOUT, INSTALLATION OR CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THE SITE PLAN. THE ENGINEER WILL REVIEW THE PLANS AND PROVIDE A CLARIFICATION OR AN ADDENDUM AS PROMPTLY AS POSSIBLE.



\*AN EQUIVALENT HANDRAIL, MODIFIED AS NECESSARY FOR SUPPORTING CONDUIT AND ANCHORING WILL BE UTILIZED FOR THE PEDESTRIAN BRIDGE IMPROVEMENTS, WHICH ARE TO BE SUBMITTED TO THE VDOT BRIDGE SECTION FOR REVIEW AND APPROVAL UNDER SEPARATE COVER. 18.



- 1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE. 2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE. 4000 PSI IF PRECAST.
- 3. CURB HAVING A RADIUS OF 300 FEET. OR LESS (ALONG FACE OF CURB) WILL BE PAID FOR AS RADIAL CURB.
- 4. THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" (15" DEPTH) OR INCREASED AS MUCH AS 3" (21" DEPTH) IN ORDER THAT THE BOTTOM OF CURB WILL COINCIDE WITH THE TOP OF A COURSE OF THE PAVEMENT SUBSTRUCTURE. OTHERWISE THE DEPTH IS TO BE 18" AS SHOWN. NO ADJUSTMENT IN THE PRICE BID IS TO BE MADE FOR A DECREASE OR AN INCREASE IN DEPTH

#### STANDARD OC-1 CURB (NO SCALE)

#### **VDOT NOTES**

METHODS AND MATERIALS USED SHALL CONFORM TO CURRENT COUNTY/TOWN AND VDOT STANDARDS AND SPECIFICATIONS.

2. ALL UTILITIES, INCLUDING ALL POLES, ARE TO BE RELOCATED AT THE DEVELOPER'S EXPENSE, PRIOR TO CONSTRUCTION.

OPEN CUTTING OF PAVED OR SURFACE TREATED ROADS IS NOT PERMITTED ALL UTILITIES WHICH WILL BE PLACED UNDER EXISTING STREETS ARE TO BE BORED OR JACKED. ANY EXCEPTIONS, DUE TO EXTENUATING CIRCUMSTANCES, ARE TO BE ADDRESSED AT THE PERMIT STAGE.

THE DEVELOPER IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING ROADS AND UTILITIES WHICH OCCUR AS A RESULT OF PROJECT CONSTRUCTION WITHIN OR CONTIGUOUS TO EXISTING RIGHT OF WAY.

5. STANDARD GUARDRAILS AND/OR HANDRAILS SHALL BE INSTALLED AT HAZARDOUS LOCATIONS AS DESIGNATED DURING FIELD REVIEW BY THE COUNTY/TOWN INSPECTOR OR VDOT

### **GENERAL NOTES**

1. BOUNDARY INFORMATION PROVIDED IS FROM A COMPILATION OF RECORDS.

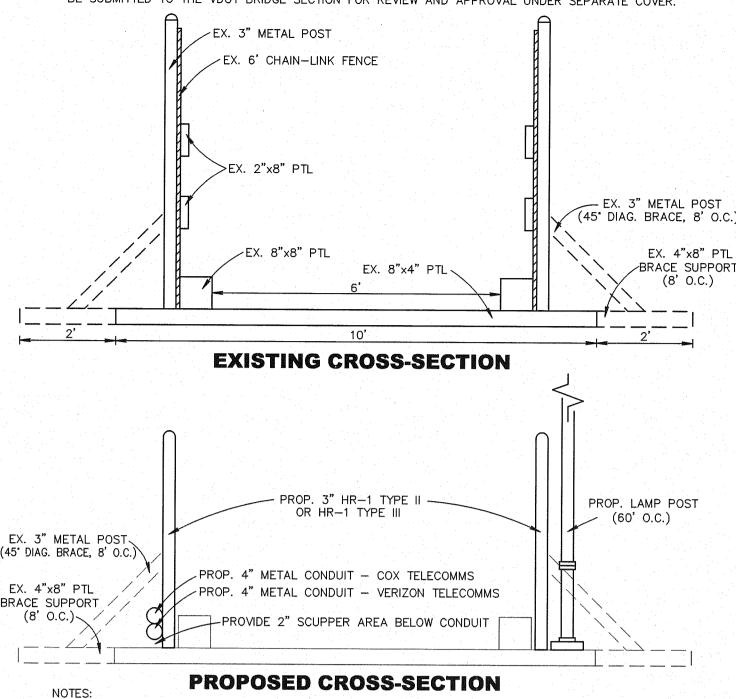
- 2. TOPOGRAPHICAL INFORMATION IS THE RESULT OF A FIELD SURVEY PERFORMED BY THE ENGINEERING GROUPE, INC, AND RELATES TO NAD83 DATUM.
- 3. ALL CONSTRUCTION SHALL CONFORM TO THE OCCOQUAN TOWN ORDINANCES AND VDOT STANDARDS AND SPECIFICATIONS.
- 4. EROSION AND SILTATION CONTROL MEASURES ARE TO BE INSTALLED TO MEET CURRENT EDITIONS OF THE <u>VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK</u> AND THE OCCOQUAN TOWN ORDINANCES, AND ARE TO BE INSTALLED PRIOR TO CLEARING, GRADING OR CONSTRUCTION.
- 5. THIS PROJECT IS SERVED BY PUBLIC WATER AND SEWAGE DISPOSAL.
- 6. THIS PLAN DOES NOT PURPORT TO SHOW ALL EXISTING UNDERGROUND UTILITIES AND THOSE SHOWN MAY BE APPROXIMATE. THE CONTRACTOR SHALL TAKE ALL NECESSARY 3 STEPS TO ACCURATELY LOCATE AND PROTECT ALL EXISTING UTILITIES IN ADVANCE OF CONSTRUCTION. IN THE EVENT OF CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED IMPROVEMENTS THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY.

NO SUBSURFACE INVESTIGATION HAS BEEN PERFORMED BY THE ENGINEERING GROUPE 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR DEVELOPER TO HAVE SUFFICIENT INC. TO ATTEST TO THE SOIL CONDITIONS OR TO THE PRESENCE OF TOXIC OR CONTAMINATED WASTE.

- THE PROPERTY SHOWN HEREIN IS LOCATED IN ZONE X, AREAS OUTSIDE OF THE 500-YEAR FLOODPLAIN, ZONE X, AREAS OF THE 500-YEAR FLOOD (OR AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT), AND ZONE AE. AREAS WHERE BASE FLOOD ELEVATIONS HAVE BEEN DETERMINED, PER FEMA FIRM #51153C0217D, PANEL 217, DATED JANUARY 5, 1995. THE BUILDING PROPOSED FALLS WITHIN ZONE X, AREAS OUTSIDE OF THE 500-YEAR FLOODPLAIN.
- THE DISTURBED ACREAGE OF THE PROPOSED SITE IS LESS THAN 2,500 SF, THE MINIMUM AREA THRESHOLD REQUIRING STORMWATER MANAGEMENT UNDER CHESEPEAKE BAY PRESERVATION ACT. AS SUCH, STORMWATER MANAGEMENT HAS NOT BEEN PROVIDED WITH THIS SITE PLAN.
- 10. ANY EXISTING CEMETERIES AND/OR GRAVE SITES FOUND ON THIS SITE SHALL BE PRESERVED IN ACCORDANCE WITH STATE REGULATIONS. AT THIS TIME, NO CEMETERIES OR GRAVE SITES ARE KNOWN TO EXIST ON THIS SITE.
- 11. NO HISTORIC BUILDINGS OR FEATURES ARE KNOWN TO EXIST WITHIN THE PROPOSED PROJECT AREA, HOWEVER, SEVERAL HISTORIC RUINS AS WELL AS THE MILL HOUSE ARE KNOWN TO EXIST ON THE PROJECT PARCEL. NO LAND DISTURBANCE IS PROPOSED TO 11. THESE KNOWN HISTORIC AREAS.
- 12. THE ENTIRE LIMITS OF THIS PROJECT HAVE BEEN PREVIOUSLY DISTURBED BY THE CONSTRUCTION OF THE FORMER WATER TREATMENT PLANT, MILL STREET CUL-DE-SAC, PEDESTRIAN BRIDGE, AND OTHER PROJECTS. NO WETLAND STUDIES HAVE BEEN PERFORMED IN ASSOCIATION WITH THIS PROJECT.
- . THIS SITE IS WITHIN AN INTENSELY DEVELOPED AREA (IDA) AS SHOWN ON THE TOWN CHESAPEAKE BAY PRESERVATION AREAS MAP, DATED JUNE 12, 2014.
- 14. IN ACCORDANCE WITH TOWN CODE SEC. 66-200.(C)(4)B., THE TOWN ZONING ADMINISTRATOR HAS AUTHORIZED ALL ENCROACHMENTS INTO THE LANDWARD FIFTY FEET OF THE RESOURCE PROTECTION AREA.
- 15. ENCROACHMENTS INTO THE SEAWARD FIFTY FEET OF THE RESOURCE PROTECTION AREA 15. REFER TO VDOT ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS (CURRENT EDITIONS) ARE PERMITTED UNDER TOWN CODE SEC. 66-204 AS APPLICABLE
- 16. EXISTING CONDITIONS SHOWN HEREON REFLECT IMPROVEMENTS APPROVED WITH THE RIVER STATION DEMOLITION AND RESTORATION PLAN.
- ENCROACHMENTS PROPOSED INTO THE 1804 MILL STREET RIGHT OF WAY AND 30' PRESCRIPTIVE RIGHT OF WAY ARE MADE PURSUANT TO VIRGINIA CODE SEC. 15.2-2009, AS MAY BE AUTHORIZED BY TOWN COUNCIL. AUTHORIZATION WILL BE MADE BY SEPARATE ACT OF COUNCIL IN CONJUNCTION WITH FINAL SITE PLAN APPROVAL.
- IMPROVEMENTS PROPOSED HEREON (INCLUDING THE RESTROOM STRUCTURE, RETAINING WALLS, AND BRICK SIDEWALKS) ARE TO BE MAINTAINED BY THE TOWN OF OCCOQUAN
- 19. UTILITIES INFORMATION SHOWN HEREON IS FROM A COMBINATION OF FIELD LOCATIONS AND INFORMATION OF RECORD.

#### **ELLICOTT PEDESTRIAN BRIDGE IMPROVEMENTS** (EXISTING VDOT PLAN #250-42) SCALE: 1"=2"

THIS DETAIL IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. A FINAL DESIGN, DETAILS AND STRUCTURAL COMPUTATIONS RELATED TO IMPROVEMENTS ON THE ELLICOT PEDESTRIAN BRIDGE ARE TO BE SUBMITTED TO THE VDOT BRIDGE SECTION FOR REVIEW AND APPROVAL UNDER SEPARATE COVER.



- 1. EX. CHAIN-LINK FENCE, & RAILINGS, T.B.R. AS NOT TO DAMAGE EXISTING BRIDGE DECK.
- 2. HR-1 TYPE II RAILING (SEE DETAIL, THIS SHEET & STRUCTURAL DRAWINGS) MODIFIED TO BE 54" IN
- 3. TWO 4" DIA. METAL CONDUITS TO BE INSTALLED ON PROPOSED HR-1, RUNNING SPAN OF FOOTBRIDGE.
- 4. FOUR FULL-CUTOFF COLONIAL LAMP POSTS ARE PROPOSED ALONG THE FOOTBRIDGE, SPACED 60' O.C.
- 5. SEE STRUCTURAL DRAWINGS FOR CONNECTIONS TO EXISTING BRIDGE DECK

**CONSTRUCTION NOTES** 

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITIES.

THE CONTRACTOR OR HIS AGENT SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ANY EXISTING UNDERGROUND UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. UTILITIES SHOWN HEREON ARE BASED ON AVAILABLE INFORMATION. IF DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHOULD ENCOUNTER ANY UTILITIES OTHER THAN THOSE SHOWN ON THESE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE NECESSARY AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE CONTINUANCE OF SERVICES. ANY DAMAGES WHICH OCCUR BY FAILURE TO LOCATE OR PRESERVE THESE UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ENGINEERED FILL AND BACKFILL SHALL BE APPROVED SELECT MATERIALS AND SHALL BE PLACED IN SIX TO EIGHT INCH LAYERS WITH UNIFORM COMPACTION THROUGHOUT. EACH LAYER OF ENGINEERED FILL SHALL BE COMPACTED AT OPTIMUM MOISTURE, PLUS OR MINUS TWO PERCENT, TO A DENSITY OF NOT LESS THAN 95 PERCENT IN ACCORDANCE WITH A.A.S.H.T.O. T-99 OR A.S.T.M. D-698.

SOILS AND FOUNDATION TESTING PERFORMED TO DETERMINE THAT THE SUPPORT VALUES AND C.B.R.'S ARE ADEQUATE FOR THE STANDARDS SHOWN ON THIS PLAN.

5. ALL FILL MATERIALS AND THEIR SUBGRADE WILL BE APPROVED BY THE SOILS ENGINEER FOR THIS SITE. COMPACTION TESTS WILL BE REQUIRED ON CONTROLLED FILLS.

6. ALL CONSTRUCTION INVOLVING PROBLEM SOILS MUST BE PERFORMED UNDER THE FULL-TIME INSPECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER

7. THE CONTRACTOR SHALL PERFORM NECESSARY GRADING TO PRECLUDE THE PONDING OF

WATER IN THE ROADWAYS AND ON ALL LOT AREAS. TEST PITS SHALL BE REQUIRED PRIOR TO CONSTRUCTION TO ADEQUATELY DETERMINE THE

LOCATIONS OF EXISTING UNDERGROUND UTILITY LINES. 9. PRIOR TO ANY CLEARING & GRADING ON SLOPES 25% OR GREATER, ALL SURFACE DRAINAGE WILL BE ROUTED AWAY FROM THE AREA TO BE GRADED.

10. TEMPORARY CHEMICAL TOILETS SHALL BE PROVIDED WITH A RATIO AT ONE TOILET PER 30 WORKERS.

ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

- 12. ANY TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, GUARDRAILS AND/OR PAVED DITCHES DEEMED NECESSARY, BY VDOT STAFF SHALL BE FURNISHED AND INSTALLED AT THE
- 13. UNLESS OTHERWISE NOTED, PIPE USED FOR STORM SEWER CONSTRUCTION SHALL BE REINFORCED CONCRETE, CLASS III WALL "B" (ASTM C76).
- 14. IF PRECAST STRUCTURES ARE TO BE USED IN LIEU OF THE STANDARD VDOT APPROVED PRECAST STRUCTURES SPECIFIED ON THESE PLANS, WRITTEN APPROVAL OF THE SHOP DRAWINGS PREPARED BY THE DESIGN ENGINEER SHALL BE OBTAINED PRIOR TO ORDERING OR INSTALLATION OF THE STRUCTURES.

FOR CONSTRUCTION DETAILS NOT INCLUDED HEREIN.

- 16. PRIOR TO ANY WORK WITHIN A DEDICATED VDOT RIGHT-OF-WAY, THE CONTRACTOR SHALL OBTAIN AN ENTRANCE PERMIT FROM VDOT.
- 17. RETAINING WALLS TO REQUIRE SEPARATE BUILDING PERMITS.
- 18. SEE STRUCTURAL DRAWINGS FOR CONNECTIONS TO EXISTING BRIDGE DECK.
- 19. ONLY ONE SHUTDOWN OF THE VERIZON COMMUNICATIONS LINES WILL BE PERMITTED. AND SHUTDOWN CAN BE NO LONGER THAN THREE HOURS IN DURATION. SHUTDOWN CAN ONLY OCCUR BETWEEN 9:00AM AND 2:00PM, MONDAY THROUGH FRIDAY. CONTRACTOR MUST PROVIDE FAIRFAX WATER A MINIMUM OF FIVE WORK DAYS NOTICE PRIOR TO SHUTDOWN OF VERIZON COMMUNICATIONS LINES, AND SHALL NOT PERFORM SHUTDOWN UNLESS FAIRFAX WATER HAS PROVIDED WRITTEN APPROVAL. CONTACT FW REPRESENTATIVE DOMINIC BRANCACCIO AT (703) 289-6367 FOR ADDITIONAL INFORMATION

## **CONSTRUCTION NOTES (CONTINUED)**

\_\_\_\_\_

PROP. E/P

EX. C & G

\_\_EX. 375 mm (15") RCP

PROP. 375 mm (15") RCP

minimi

🗦 375 mm (15") OAK

FLOW LINE

**FENCELINE** 

EXISTING UTILITY POLE

PROPOSED UTILITY POLE

EXISTING FIRE HYDRANT

PROPOSED FIRE HYDRANT

EXISTING WATER VALVE

PROPOSED WATER VALVE

PROPOSED WATER METER

HANDICAP RAMP (CG-12)

INDICATES THE NUMBER OF TYPICAL PARKING SPACES

SLOPES TO BE STABILIZED PURSUANT TO VIRGINIA

EROSION AND SEDIMENT CONTROL HANDBOOK

PROPOSED BUILDING ENTRANCE

PROPOSED STREET NAME SIGN

SANITARY MANHOLE IDENTIFIER

PROPOSED SANITARY LATERAL CLEANOUT

STORM DRAIN STRUCTURE IDENTIFIER

VEHICLES PER DAY COUNT

EXISTING STREET LIGHT

PROPOSED STREET LIGHT

DENOTES LOCATION OF STD VDOT

CG—12 AND/OR JURISDICTIONAL STANDARD RAMP CONSTRUCTION

PARKING INDICATOR

TEST PIT LOCATION

CRITICAL SLOPE

EXISTING REDUCER

PROPOSED REDUCER

STOP SIGN

EXISTING WATERLINE W/ TEE

PROPOSED WATERLINE W/ TEE

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EXISTING INTERMEDIATE CONTOUR

EXISTING INDEX CONTOUR

EXISTING EDGE OF PAVEMENT

EXISTING CURB AND GUTTER

PROPOSED CURB AND GUTTER

EXISTING TELEPHONE LINE

EXISTING STORM SEWER

PROPOSED STORM SEWER

EXISTING SANITARY SEWER

PROPOSED SANITARY SEWER

EXISTING ELECTRIC SERVICE

PROPOSED ELECTRIC SERVICE

LIMITS OF CLEARING AND GRADING

EXISTING SPOT ELEVATION

EXISTING TREE DRIP LINE

PROPOSED SPOT ELEVATION

EXISTING GAS LINE

PROPOSED GAS LINE

PROPERTY LINE

EASEMENT LINE

CENTERLINE

**EXISTING TREE** 

PROPOSED TREE

EXISTING STREAMS

PROPOSED TELEPHONE LINE

TRANSITION FROM CG-6 TO CG-6R

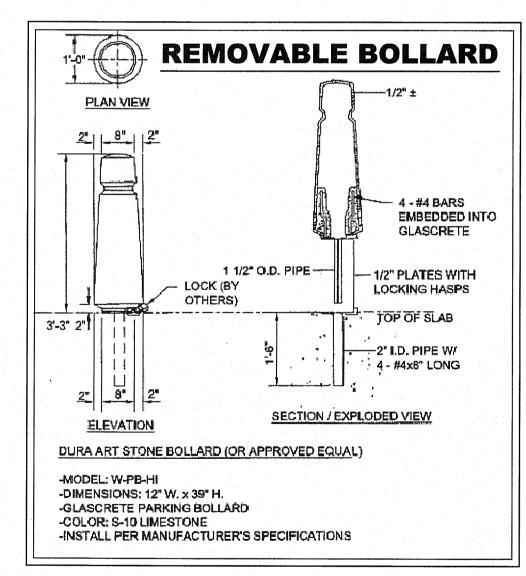
PROPOSED EDGE OF PAVEMENT

PROPOSED CONTOUR

20. TELECOMMUNICATIONS CONDUITS SHALL BE BORED OR DIRECTIONALLY DRILLED UNDER THE CONCRETE STEPS ON THE NORTH SIDE OF THE PEDESTRIAN BRIDGE. CONTRACTOR MUST PROVIDE FAIRFAX WATER A MINIMUM OF FIVE WORK DAYS NOTICE PRIOR TO BORING, AND SHALL NOT PERFORM SHUTDOWN UNLESS FAIRFAX WATER HAS PROVIDED WRITTEN APPROVAL

WETLANDS

21. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BLOCK VEHICULAR ACCESS TO FAIRFAX WATER FACILITIES ON EITHER SIDE OF THE RIVER.



### **PROJECT NARRATIVE**

THIS SITE PLAN CONSISTS OF DESIGN INFORMATION NECESSARY TO CONSTRUCT THE RIVER PARK RESTROOM & MAINTENANCE FACILITY. PROPOSED IMPROVEMENTS INCLUDE THE CONSTRUCTION OF A BATHROOM/MAINTENANCE FACILITY, RETAINING WALLS, KNEEWALLS, BRICK AND STONE-DUST TRAILS. HISTORIC DISPLAYS AND RELATED INFRASTRUCTURE. THE TOTAL AREA OF LAND DISTURBANCE IS LESS THAN 2,500 SQUARE FEET.

#### **ZONING TABULATION**

USE: WATERFRONT BUSINESS - RECREATIONAL ACTIVITIES PWC GPIN: 8393-65-2114 NUMBER OF LOTS: TOTAL PARCEL AREA: 0.88 AC 1804 ROW AREA: 0.16 AC ROW ENCROACHMENT AREA: 0.04 AC MINIMUM LOT AREA: N/A MINIMUM LOT WIDTH: N/A SETBACK FROM FUNCTIONAL ROW: 5 FT MAX BUILDING HEIGHT: 35 FT

# OF STORIES:

GROSS FLOOR AREA: 980 SF

PARKING SPACES (EXISTING): 10 SP (INC. 1 HC)

ENGINEERING GROUPE PROJECT STATUS

DATE

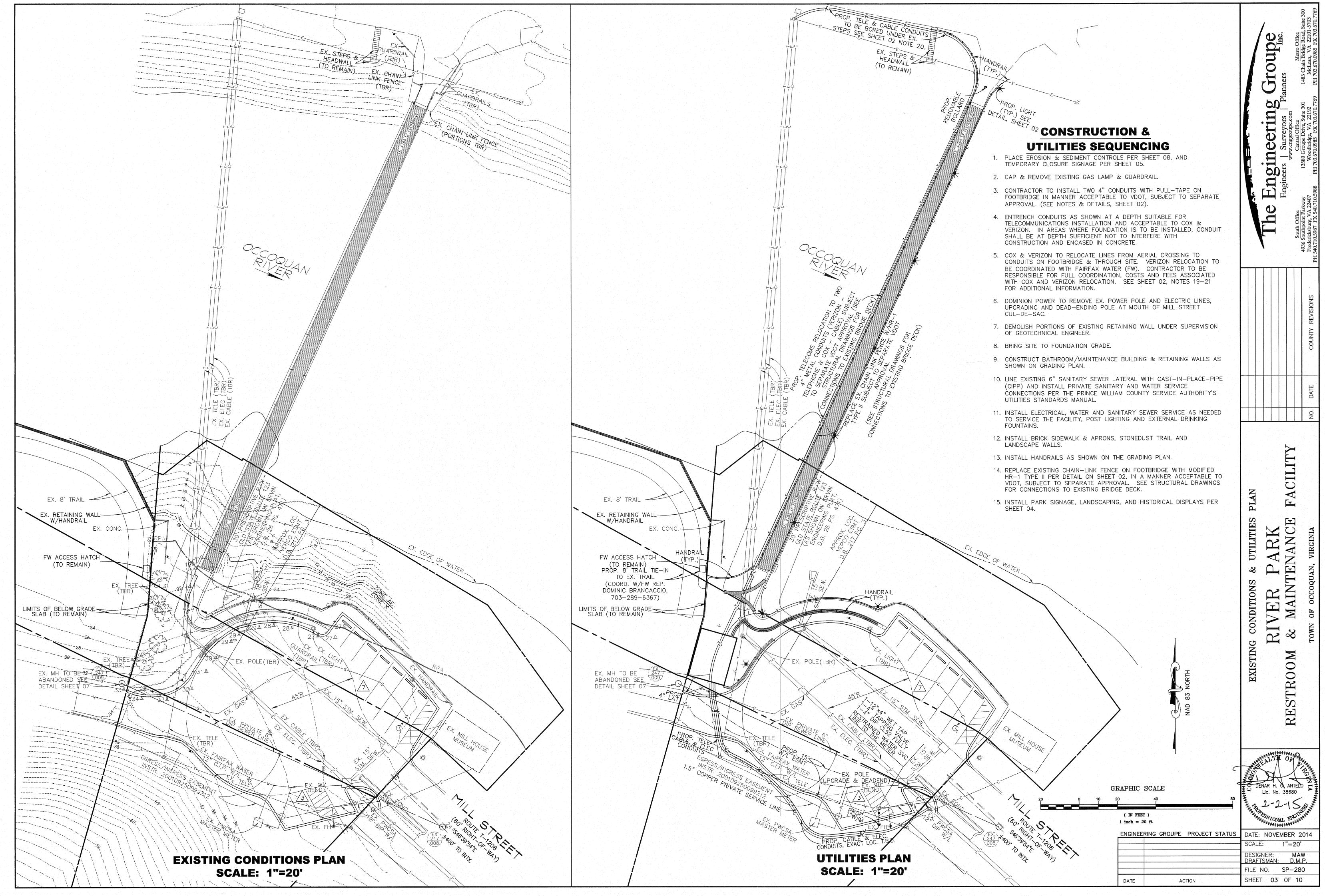
SCALE: AS SHOWN **ESIGNER:** MAW RAFTSMAN: D.M.P. FILE NO. **SP-280** 

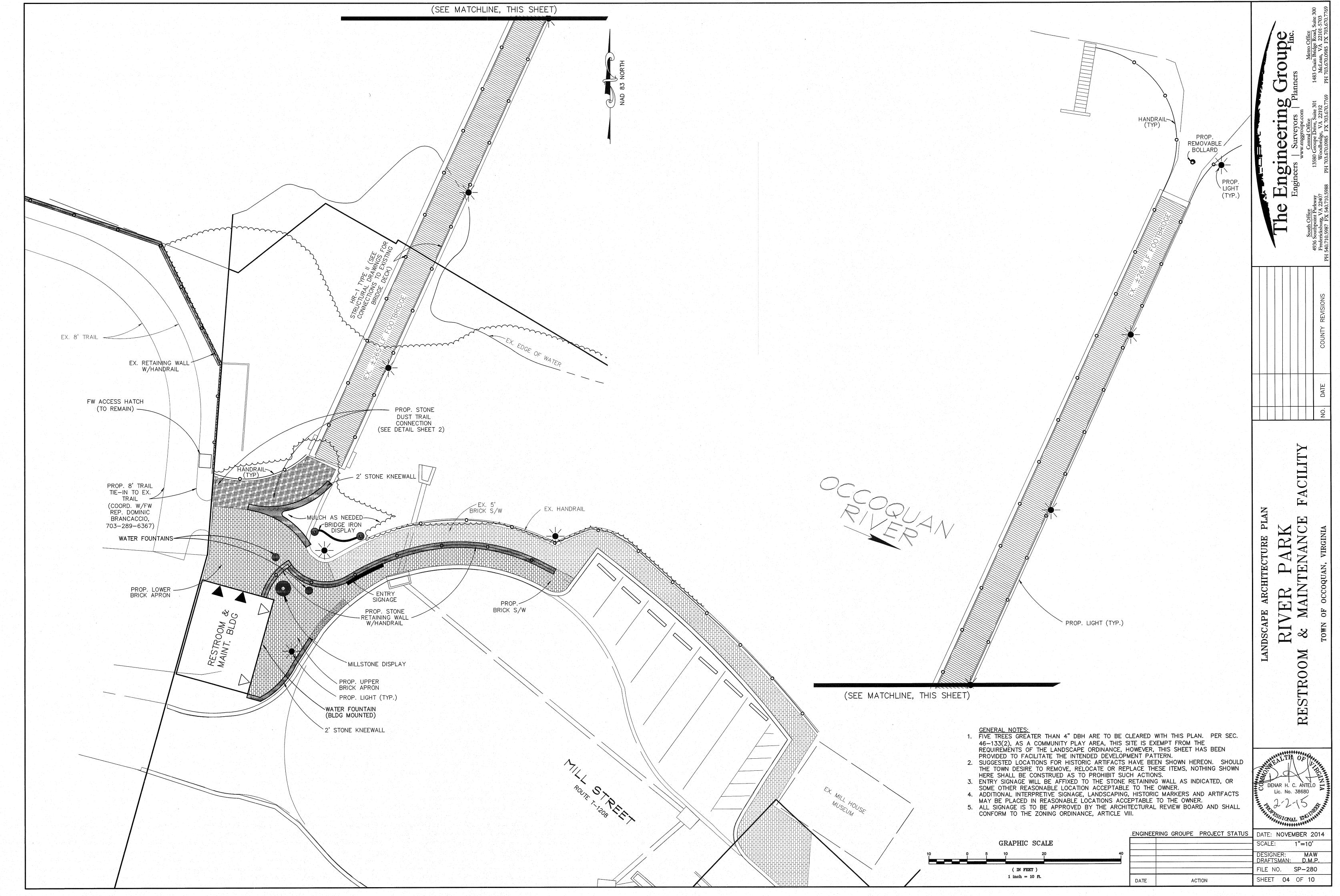
32-2-15

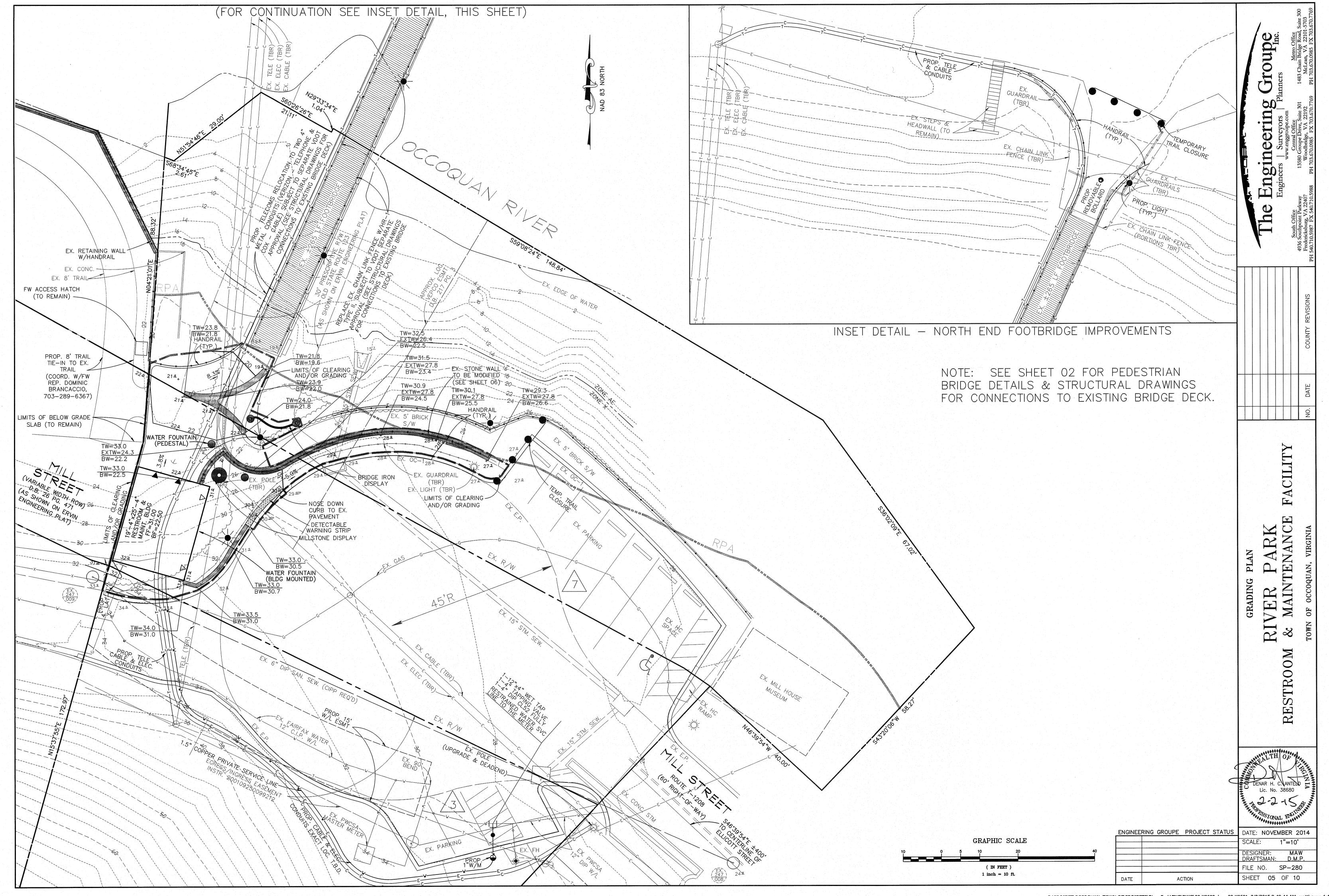
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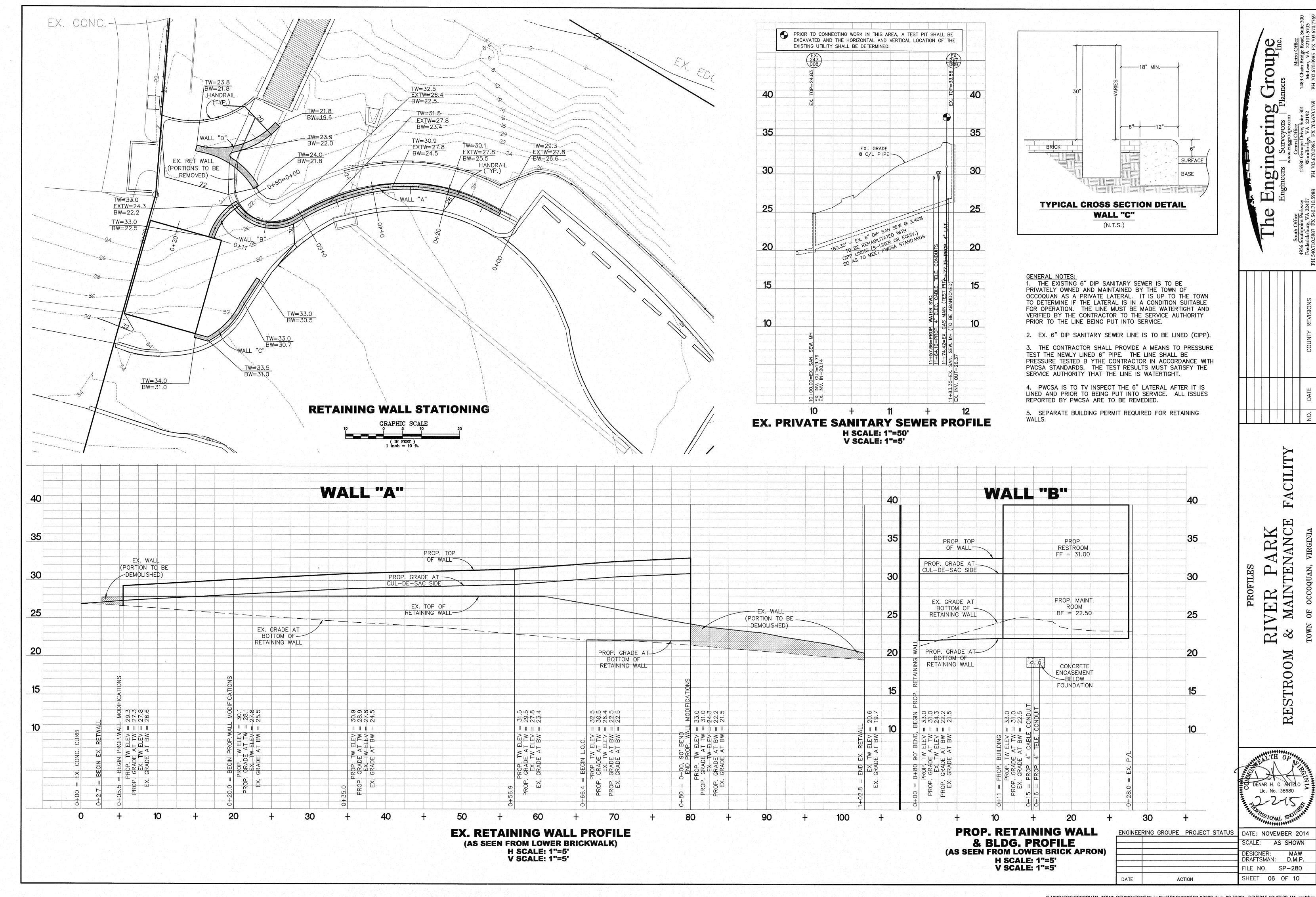
DATE: NOVEMBER 2014

SHEET 02 OF 10



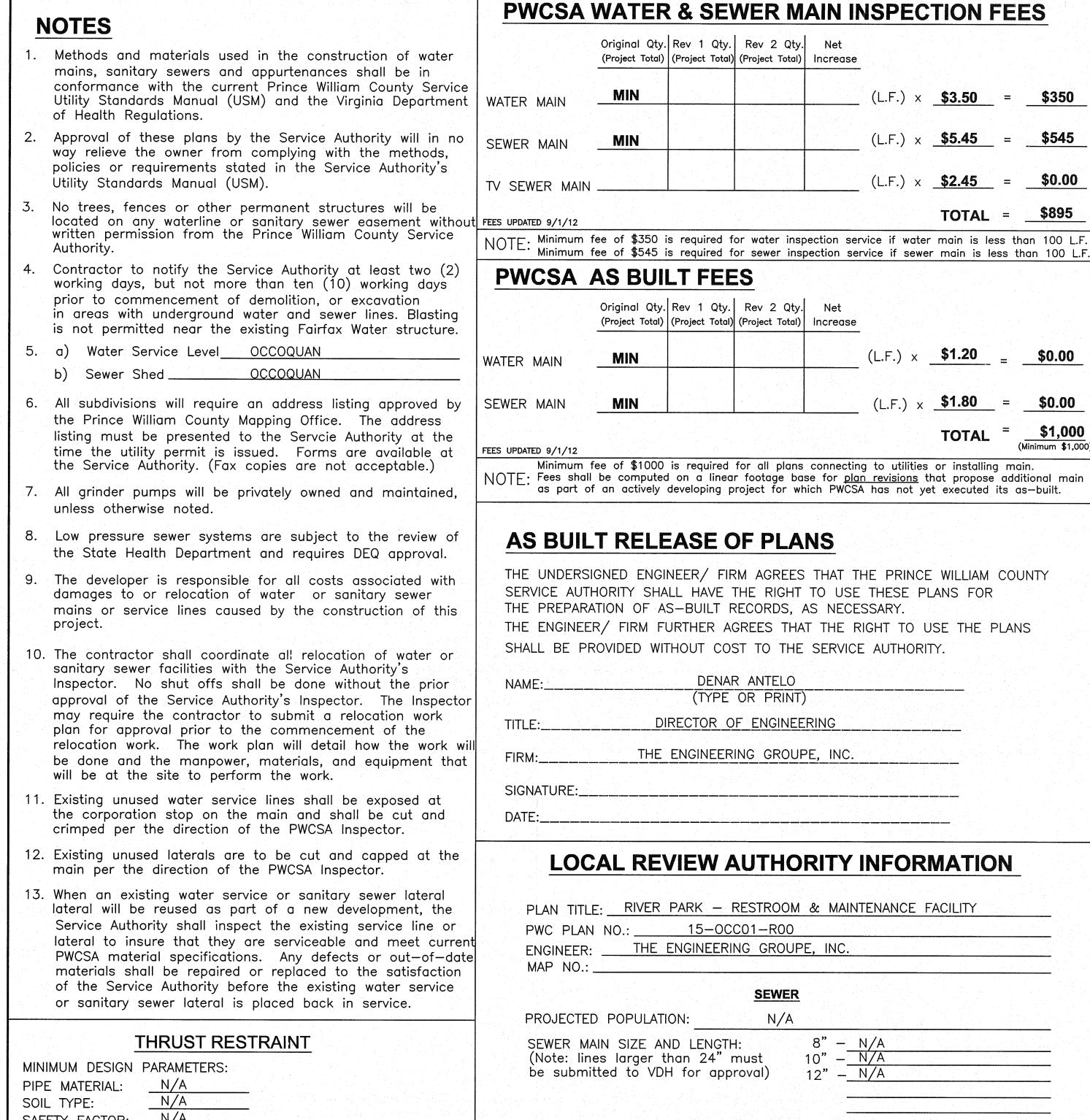


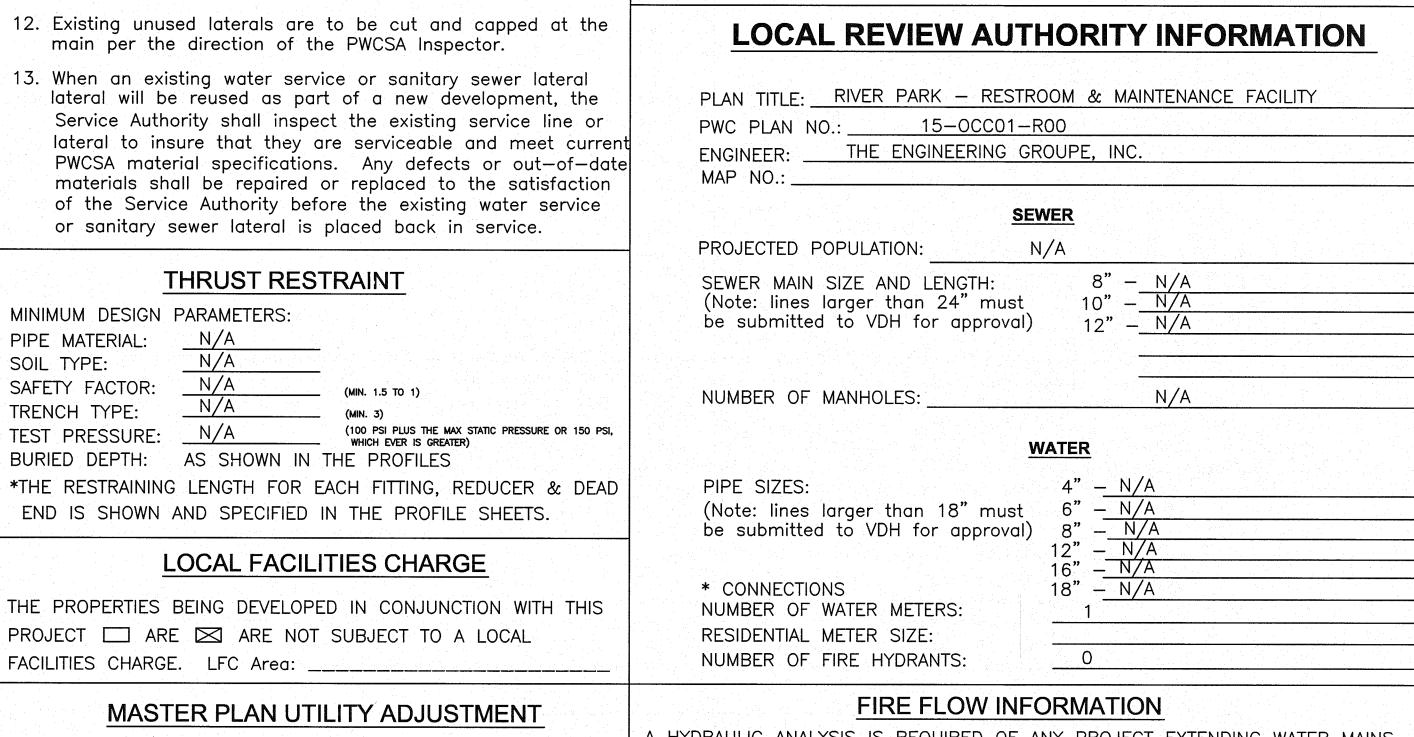




## NOTES 1. Methods and materials used in the construction of water mains, sanitary sewers and appurtenances shall be in conformance with the current Prince William County Service Utility Standards Manual (USM) and the Virginia Department of Health Regulations. 2. Approval of these plans by the Service Authority will in no way relieve the owner from complying with the methods, policies or requirements stated in the Service Authority's Utility Standards Manual (USM). 3. No trees, fences or other permanent structures will be Authority. 4. Contractor to notify the Service Authority at least two (2) working days, but not more than ten (10) working days prior to commencement of demolition, or excavation in areas with underground water and sewer lines. Blasting is not permitted near the existing Fairfax Water structure. 5. a) Water Service Level OCCOQUAN Sewer Shed \_\_\_ the Prince William County Mapping Office. The address listing must be presented to the Servcie Authority at the time the utility permit is issued. Forms are available at the Service Authority. (Fax copies are not acceptable.) All grinder pumps will be privately owned and maintained, unless otherwise noted

uniess otherwise noted.								
8. Low pressure sewer systems are subject to the review of the State Health Department and requires DEQ approval.								
<ol> <li>The developer is responsible for all costs associated with damages to or relocation of water or sanitary sewer mains or service lines caused by the construction of this project.</li> </ol>								
10. The contractor shall coordinate all relocation of water or sanitary sewer facilities with the Service Authority's Inspector. No shut offs shall be done without the prior approval of the Service Authority's Inspector. The Inspector may require the contractor to submit a relocation work plan for approval prior to the commencement of the relocation work. The work plan will detail how the work will be done and the manpower, materials, and equipment that will be at the site to perform the work.								
11. Existing unused water service lines shall be exposed at the corporation stop on the main and shall be cut and crimped per the direction of the PWCSA Inspector.								
12. Existing unused laterals are to be cut and capped at the main per the direction of the PWCSA Inspector.								
13. When an existing water service or sanitary sewer lateral lateral will be reused as part of a new development, the Service Authority shall inspect the existing service line or lateral to insure that they are serviceable and meet current PWCSA material specifications. Any defects or out—of—date materials shall be repaired or replaced to the satisfaction of the Service Authority before the existing water service or sanitary sewer lateral is placed back in service.								
THRUST RESTRAINT								
MINIMUM DESIGN PARAMETERS:  PIPE MATERIAL:  N/A  SOIL TYPE:  N/A  SAFETY FACTOR:  N/A  (MIN. 1.5 TO 1)								
TRENCH TYPE: N/A (MIN. 3)								
TEST PRESSURE: N/A (100 PSI PLUS THE MAX STATIC PRESSURE OR 150 PSI, WHICH EVER IS GREATER)								





A MASTER PLAN UTILITY ADJUSTMENT AGREEMENT DOES DOES NOT EXIST BETWEEN THE SERVICE AUTHORITY AND THE DEVELOPER FOR DEFINED BETTERMENTS.

\*DESIGN OR CONSTRUCTION CHANGES MUST CARRY THE CONSENT OF PWCSA ENGINEERING.

\*THE DEVELOPER SHOULD REQUEST REIMBURSEMENT PER THE AGREEMENT AFTER BETTERMENTS ARE INSTALLED AND TESTED.

A HYDRAULIC ANALYSIS IS REQUIRED OF ANY PROJECT EXTENDING WATER MAINS. A HYDRANT FLOW TEST CAN BE USED IN PLACE OF AN ANALYSIS TO CALCULATE AVAILABLE FIRE FLOW WHEN NO NEW WATER MAIN IS PROPOSED OR ONLY A FIRE HYDRANT IS SET

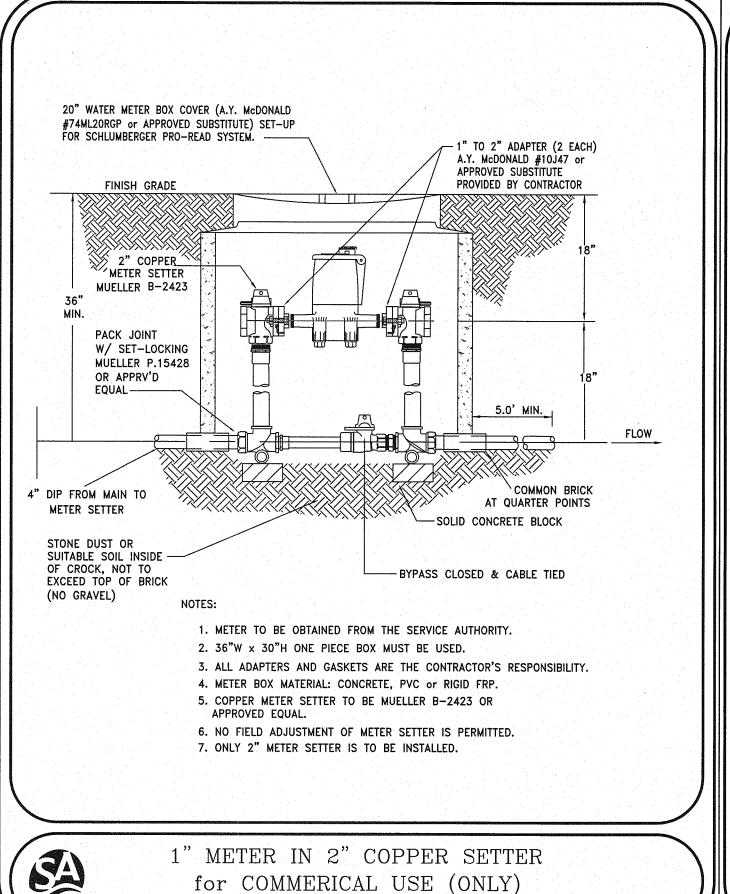
HY	DRAULIC	MODEL SUM	MARY:
a)	Minimun	n Pressure:	N/A
			NI/A

HYDRANT FLOW TEST: a) Static Pressure:

b) Maximum Pressure: N/A c) Fire Flow: \_\_\_

b) Residual Pressure: c) Flow: d) Available Fire Flow at 20 psi:

THIS PROJECT IS NOT SUBJECT TO PRINCE WILLIAM COUNTY FIRE FLOW REQUIREMENTS OR TOWN FIRE FLOW REQUIREMENTS. IN THE INTEREST OF ASSURING PUBLIC SAFETY, AN HYDRANT FLOW TEST WAS ORDERED 11/17/14. RESULTS EXPECTED WEEK OF 2/7/15



REMOVE MANHOLE FRAME & COVER. REMOVE ALL ADJUSTMENT RINGS. REMOVE MINIMUM 24" FROM BLOCK OR BRICK MANHOLES. REMOVE CONE SECTION FROM PRECAST MANHOLES. FILL REMAINING AREA WITH #57 STONE. — BULK HEAD ALL CONNECTIONS TO MANHOLE WITH A PRE-MIXED, FAST SETTING VOLUME STABLE, WATERPPROOF CEMENT: or AS DIRECTED BY SERVICE AUTHORITY FIELD INSPECTOR 1. WHERE MANHOLE IS LOCATED IN PAVEMENT, PAVEMENT SHALL BE RESTORED IN ACCORDANCE 2. MANHOLES LOCATED IN EASEMENT AREAS SHALL BE RESTORED SIMILAR TO SURROUNDING

ABANDONMENT OF MANHOLE

<u>N.T.S.</u>

**FIXTURE UNIT LIST & METER SIZING CALCULATIONS** 

W05.07.00

FIXTURE VALUE NO. OF DRINKING FOUNTAIN — PUBLIC <u>@ 60 PSI</u> **FIXTURES** SERVICE SINK TOILET - FLUSH VALVE URINAL - PEDESTAL FLUSH VALVE HOSE - 50' WASHDOWN - 1/2" COMBINED FIXTURE VALUE TOTAL 34 GPM \*1.0 CUTOMER PEAK DEMAND x PRESS. FACTOR 34 GPM TOTAL FIXED DEMAND

### SANITARY LATERAL SCHEDULE

From Manhole:	247/008	To Manhole:	247/009	Slope: 3.409	<b>7</b>	Length	n: 183.35'		Low Invert: 19.7	9 Mater	ial: 6" DIP	PWCS	A Use Only
Ejector Pump Required √	Lot No.	Station	Invert @ Main	Crown @ Main	Length of Lateral	Slope of Ris Lateral (%) Hei		Ground Elev. © End	Basement Floor Elev. @ End	Difference Basement Floor Elev. to Crown @ Main	Lateral Material	Date Installed	Stub Installed % of Grade
/	1	11+77.35	26.17'	26.87'	6'	2.08%	26.87	32.3'	22.50'	-4.37'	4" DIP		

### MULTI-DWELLING OR NON-RESIDENTIAL METER SCHEDULE

Building		Building		Building	If applicable	Meter	Peak	If applicable		Accou	nt Type			ter Sette		1
Identifier		Address		Use	number of dwelling units	C:	demand in gpm	continuous demand in gpm	Water & Sewer	Sub-Meter Account	Water Only Account	Sewer Only Account	3/4" Yoke	1" Yoke	2" Setter	
RESTROOM	458 MILL	STREET,	OCCOQUAN	RESTROOM & MAINT/STORAG	N/A	1.0"	34	N/A	$\boxtimes$				4		$\boxtimes$	
NOTE:	A fixture un information	it list and in this tab	meter sizing c le.	alculations in acc	ordance to AV	/WA M22 2nd	l edition is to	be inserted in	n the plar	set supp	orting the					

#### **VALVE SCHEDULE**

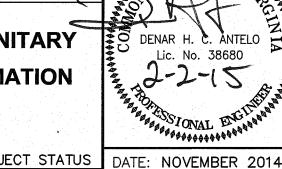
	Qty.	Valve Size	Manufacturer (PWCSA use)
	1	4 - inch	
		6 - inch	
1.	1 1 1	8 - inch	
	1.4 ( )	10 - inch	
		12 - inch	
		14 - inch	
		16 - inch	
		18 - inch	
	11.54	24 - inch	



Prince William County

SHEET REVISED AS OF FEBRUARY, 2011

WATER AND SANITARY **SEWER INFORMATION** 



SHEET

INFORMATION

**PWCSA** 

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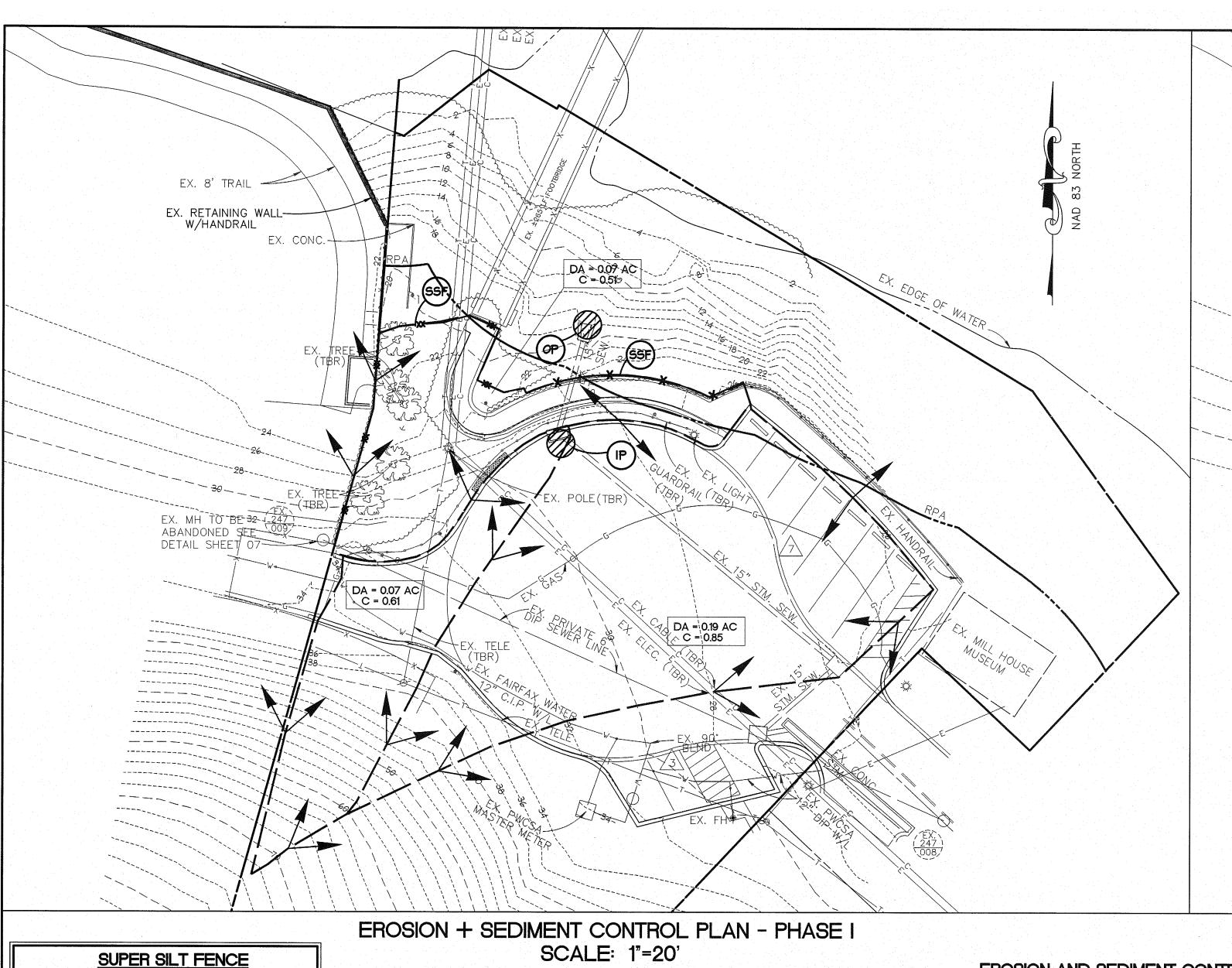
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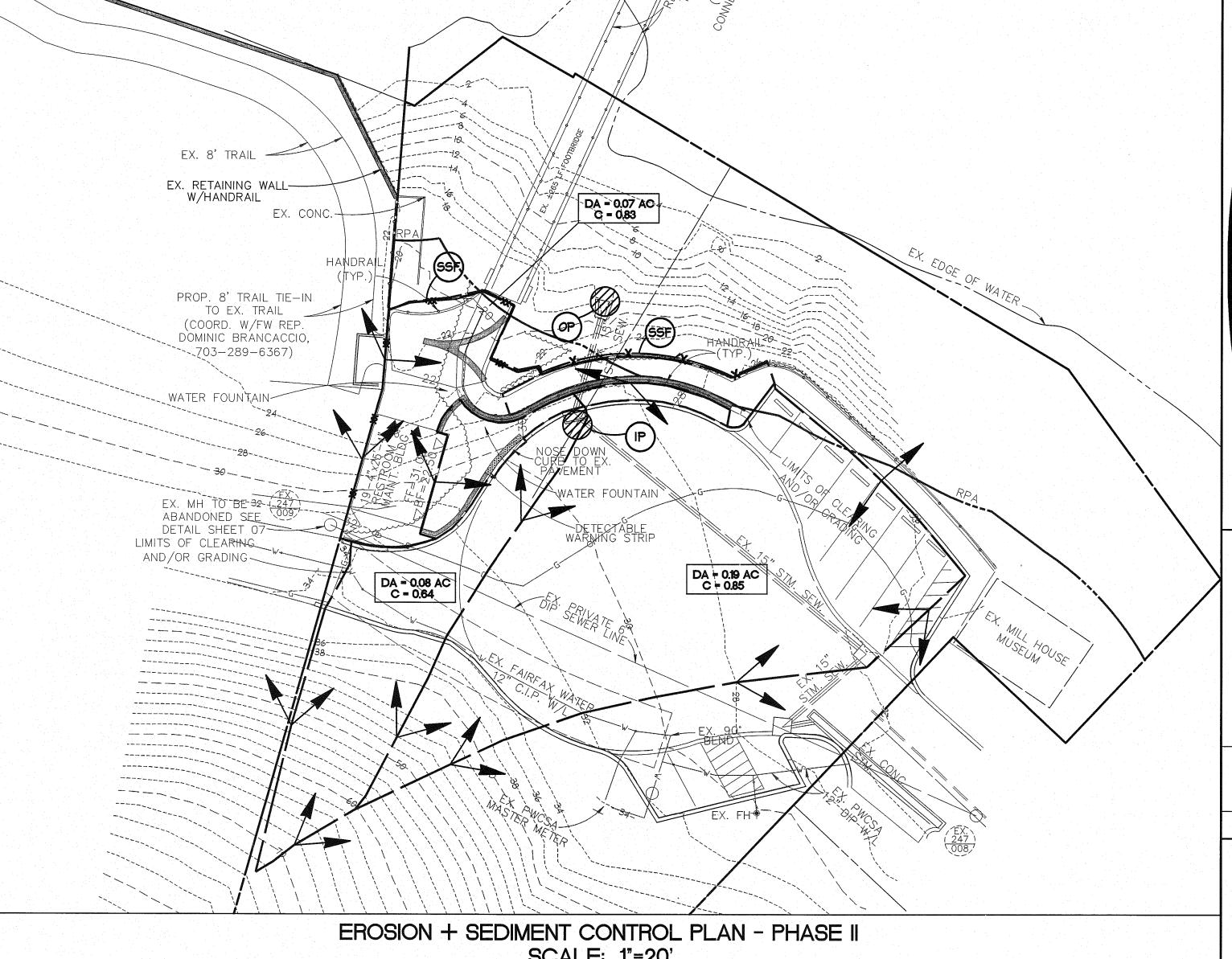
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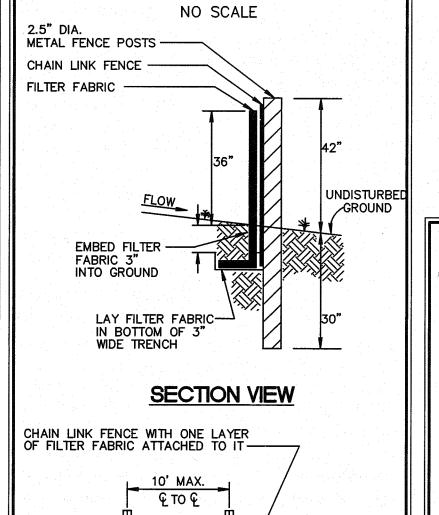
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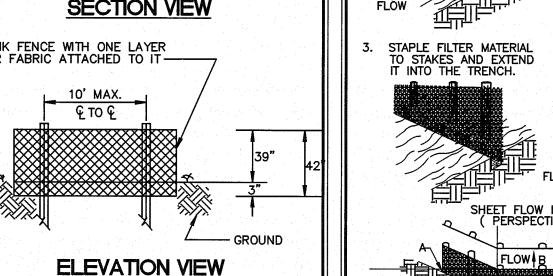
DESIGNER: DRAFTSMAN:	MAW D.M.P.
FILE NO.	SP-280
SHEET 07	OF 10

Project Summary & Analysis		WATER INFORMATION			SANITARY SEWER	R INFORMATION	e 300
PLAN TITLE: RIVER PARK RESTROOM & MAINTENANCE FACILITY	Total Time		Comments:	Stations: Pipe Size Lat	teral Run %	Comments:	S. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.
PWC PLAN NO.: 15-0CC01-R00	- Spellt For Day.			& Material: Loc	cation: Location: of Grade:		Metro Office Chain Bridge Road, McLean, VA 22101
PWCSA Inspector:							Chain B
Contractor(s):							anners 1483 (
Type of project (Check all that apply):  ☐ Residential SFD ☑ Public Improvement Plan ☐ Non—Residential 1 pad site							
Residential Townhouses Road Plan Non-Residential 2-4 pad site	sites						Ors   Pl
Date Project Started:							Strong St
Date All Water & Sanitary Sewer Mains Completed & Tested:							Su Cent
Date Full Beneficial Use Assigned:							1358 1358 1358 1358 1358 1358 1358 1358
Date Released from Bond:							Engineers   Sur www.eng   Sur   Sur
Number of lots or pad sites:  Quantity of water main:							1 EXM. 2 VI L
Number of meter taps to the main:1							Office Point Park
Quantity of sewer main:  Number of manholes:							South 6 Southpedericksbu
Number of lateral connects to the main:							493 Fre
Description of major factors that added significant inspection time (rock,							
bores, night work, restrictions in right—of—way, temporary services, pump arounds, etc.)							
Project Proficiency:							
(Rate project on a scale of 1 to 5 with 1 being the most proficient.)							
Estimated Total Office/Mis. Time:							DATE
Estimated Total Field Time:	<b></b>						- O Z
Number of Beneficial Use Inspections and Estimated Time:  Number of Bond Release Inspections and Estimated Time:	-						
Estimated Total Time:							
							SHEE SHEE
							NIR A NIR
							AN, ABOVE THE SERVICE OF THE SERVICE
							ORN L
							AS N N N N N N N N N N N N N N N N N N N
							20000000000000000000000000000000000000
						PWCSA INSPECTOR WATE	IR & SOUTH OFFICE
							DENAR H. C. ANTELO
						SANITARY SEWER LOG SH	LIC. NO. 38680
					Service Autho	nity	TOWAL EXILED
						ENGINEERING GROUPE	
							SCALE: N/A  DESIGNER: MAW  DRAFTSMAN: D.M.P.
					CHEET DEVICED AC	S OF FEBRUARY, 2011 DATE A	FILE NO. SP-280  ACTION SHEET 08 OF 10
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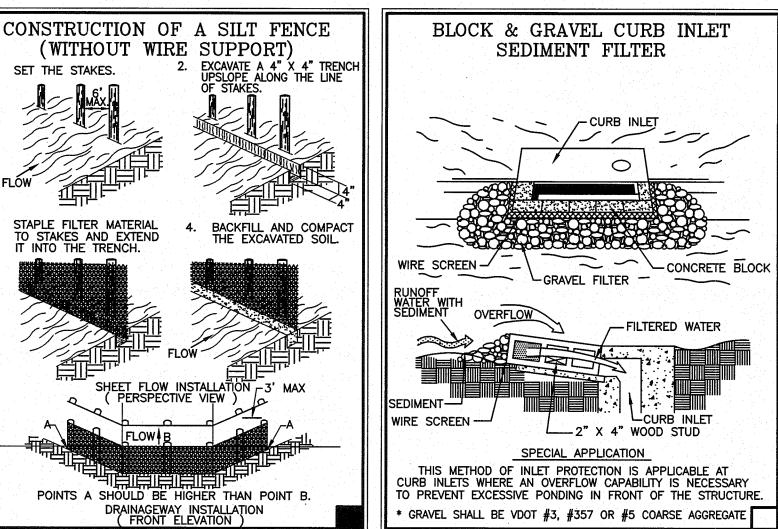


SET THE STAKES.

Chain link fence shall be 39" above grade with 3" embedded for a total fabric width of 42". The post shall be 42" above grade with 30" placed below grade (without concrete) for a total length of 72"

- 1. Chain link fence shall be fastened securely to fence posts with wire ties.
- 2. Filter fabric shall be fastened securely to chain link fence with ties spaced horizontally 24" at the top and midsection. 3. Physical properties of the filter fabric shall conform to the latest edition of THE VIRGINIA EROSION & SEDIMENT CONTROL
- HANDBOOK. 4. When two sections of filter fabric adjoin each other, they shall be overlapped by 6".
- 5. Maintenance shall be performed as needed and material shall be removed when sediment build-up reaches 50% of the height of the super silt fence.
- 6. DOUBLE SUPER SILT FENCE shall be constructed in the same manner detailed above. Two layers of super silt fence shall be constructed in parallel, with a 5' separation between

## SCALE: 1"=20"



#### **EROSION AND SEDIMENT CONTROL NARRATIVE:** PROJECT DESCRIPTION

THIS SITE PLAN CONSISTS OF DESIGN INFORMATION NECESSARY TO CONSTRUCT THE RIVER PARK RESTROOM & MAINTENANCE FACILITY. PROPOSED IMPROVEMENTS INCLUDE THE CONSTRUCTION OF A BATHROOM/MAINTENANCE FACILITY, RETAINING WALLS, KNEEWALLS, BRICK AND STONE-DUST TRAILS, HISTORIC DISPLAYS AND RELATED INFRASTRUCTURE. THE TOTAL AREA OF LAND DISTURBANCE IS LESS THAN 2,500 SQUARE FEET.

#### EXISTING SITE CONDITIONS

THE TOPOGRAPHY ON THIS PARCEL RANGES IN ELEVATION FROM 0 FEET TO 82 FEET ABOVE SEA LEVEL. THE LAND ONSITE IS STEEPLY SLOPING TO THE NORTH AND WEST, WHERE THE PERCENT GRADE REACHES VALUES UPWARDS OF 50%, ATTRIBUTED TO PREVIOUS FILL DEVELOPMENT AND THE GENERAL NATURE OF THE OCCOQUAN RIVER VALLEY & FALL LINE.

THE VEGETATION IS GENERALLY SECOND GROWTH AND VOLUNTEER SPECIES. FIVE INSIGNIFICANT TREES ARE PROPOSED FOR REMOVAL WITH THIS PROJECT AND WILL BE REPLACED AT A 1:1 RATIO.

EASEMENTS, PRESCRIPTIVE RIGHTS OF WAY AND RIGHTS OF WAY FROM THE TOWN'S 1804 PLAT EXIST ON THE SUBJECT PROPERTY. OTHER IMPROVEMENTS EXIST ON SITE, INCLUDING RETAINING WALLS, BRICK SIDEAWLKS AND ELECTRICAL, CABLE, TELEPHONE, GAS, SEWER AND WATER UTILITIES.

#### ADJACENT PROPERTIES

THE SUBJECT PARCEL IS BOUND TO THE NORTH BY THE OCCOQUAN RIVER, TO THE WEST BY THE FORMER FAIRFAX WATER "RIVER STATION" TREATMENT PLANT (CURRENTLY UNDER CONVERSION TO BECOME A TOWN PARK), TO THE SOUTH AND SOUTHEAST BY THE ROCKLEDGE MANSION, AND TO THE EAST BY A BOAT/MARINE STORAGE FACILITY.

A SOILS MAP AND SUPPORTING SOILS DATA HAVE BEEN PROVIDED ON SHEET 1 OF THIS PLAN SET.

## CRITICAL EROSION AREAS

WHILE THE SOILS IN THE AREA ARE GENERALLY SEVERE, AND THE SLOPES OF THE SITE CONSIDERABLY STEEP, THE SITE IS GENERALLY VEGETATED AND BEARS LARGE GEOLOGICAL ROCK FORMATIONS. THE LIKELIHOOD OF CRITICAL EROSION IS FURTHER MITIGATED BY THE MINOR NATURE OF THE PROJECT, AS THE LAND DISTURBANCE FOOTPRINT IS LESS THAN 2500 SF.

#### MINIMUM STANDARDS

FOR EVERY MEASURE EMPLOYED TO SATISFY EACH OF THE NINETEEN MINIMUM STANDARDS APPLICABLE TO THIS DEVELOPMENT, THE NUMBER FOR THE PARTICULAR STANDARD BEING SATISFIED HAS BEEN PLACED IN PARENTHESES NEXT TO THE CORRESPONDING MEASURE. STORM SEWER COMPUTATIONS AND CHANNEL COMPUTATIONS HAVE BEEN PROVIDED ON SHEETS 39 AND 40, RESPECTIVELY, DEMONSTRATING COMPLIANCE WITH MS-19. THE FOLLOWING MINIMUM STANDARDS DO NOT APPLY TO THIS DEVELOPMENT: MS-12, MS-13, MS-14, AND MS-15.

#### EMBANKMENT FILL MATERIAL

THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED BORROW AREAS. IT SHALL BE CLEAN MINERAL SOIL, FREE OF ROCTS, WOODY VEGETATION, STUMPS, SOD, OVERSIZED STONES, ROCKS, OR OTHER PERISHABLE OR OBJECTIONABLE MATERIAL. THE MATERIAL SELECTED MUST HAVE ENOUGH STRENGTH FOR THE DAM TO REMAIN STABLE AND BE TIGHT ENOUGH, WHEN PROPERLY COMPACTED, TO PREVENT EXCESSIVE PERCOLATION OF WATER THROUGH THE DAM. FILL CONTAINING PARTICLES RANGING FROM SMALL GRAVEL OR COARSE SAND TO FINE SAND AND CLAY IN DESIRED PROPORTION IS APPROPRIATE. ANY EMBANKMENT MATERIAL SHOULD CONTAIN APPROXIMATELY 20% CLAY PARTICLES BY WEIGHT. USING THE UNIFIED SOIL CLASSIFICATION SYSTEM, SC (CLAYEY SAND), GC (CLAYEY GRAVEL) AND CL ("LOW LIQUID LIMIT" CLAY) ARE AMONG THE PREFERRED TYPES OF EMBANKMENT SOILS. AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. THE FILL MATERIAL SHOULD CONTAIN PROPER AMOUNT OF MOISTURE TO ENSURE THAT 95% COMPACTION WILL BE ACHIEVED. FILL MATERIAL WILL BE PLACED IN 6-INCH CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF THE FILL. COMPACTION SHALL BE OBTAINED BY ROUTING THE HAULING EQUIPMENT OVER THE FILL SO THAT THE ENTIRE SURFACE OF THE FILL IS TRANSFERRED BY AT LEAST ONE WHEEL OR TREAD TRACK OF THE EQUIPMENT, OR BY USING A COMPACTOR. SPECIAL CARE SHALL BE TAKEN IN COMPACTING AROUND THE ANIT-SEEP COLLARS (COMPACT BY HAND, IF NECESSARY) TO AVOID DAMAGE AND ACHIEVE DESIRED COMPACTION. THE EMBANKMENT SHALL BE CONSTRUCTED TO AN ELEVATION 10% HIGHER THAN THE DESIGN HEIGHT TO ALLOW FOR SETTLEMENT IF COMPACTION IS OBTAINED WITH HAULING EQUIPMENT. IF COMPACTORS ARE USED FOR COMPACTION, THE OVERBUILD MAY BE REDUCED TO NOT LESS THAN 5%.

## SCALE: 1"=20"

#### EROSION AND SEDIMENT CONTROL MEASURES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

NO DISTURBED AREAS SHALL BE DENUDED FOR MORE THAN SEVEN (7) DAYS, EXCEPT FOR THAT PORTION OF THE SITE IN WHICH WORK WILL BE CONTINUOUS BEYOND SEVEN (7) DAYS. SILT FENCE BARRIERS AND ALL OTHER PERIMETER CONTROL MEASURES, AS INDICATED ON THE PLANS SHALL BE PLACED IN CONJUNCTION WITH CLEARING AND PRIOR TO ROUGH GRADING. (MS-1)

ANY STOCKPILED MATERIAL WHICH WILL REMAIN IN PLACE LONGER THAN SEVEN (7) DAYS SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATION. WHEN NECESSARY TO DE-WATER A TRENCH, THE PUMP DISCHARGE HOSE SHALL BE OUTLETTED INTO A STABILIZED AREA OR SEDIMENT TRAPPING STRUCTURE. (MS-1, MS-2)

THE CONTRACTOR SHALL MAKE PROVISIONS FOR DUST CONTROL DURING CONSTRUCTION ACTIVITIES. ACCEPTABLE MEASURES FOR DUST CONTROL INCLUDE TEMPORARY VEGETATIVE COVER, MULCHING. TILLAGE, IRRIGATION, SPRAY-ON ADHESIVES, STONE, BARRIERS, AND CALCIUM CHLORIDE. PLEASE SEE STD & SPEC 3.39 OF THE VESCH FOR A DESCRIPTION OF EACH METHOD, AND HOW IT IS USED MOST

#### STRUCTURAL PRACTICES

SILT FENCE BARRIER — 3.05 SILT FENCE SEDIMENT BARRIERS WILL BE INSTALLED DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT—LADEN RUNOFF FROM SHEET FLOW AS INDICATED ON THE SITE PLAN.

DAILY SITE INSPECTION WILL BE REQUIRED AND DAMAGED CONTROLS REPAIRED BY CLOSE OF THAT DAY. INSPECTIONS SHALL ALSO FOLLOW EACH SIGNIFICANT RAINFALL. IN PARTICULAR THE FOLLOWING SHALL BE INSPECTED:

THE SILT FENCE BARRIER WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALFWAY TO THE TOP OF THE BARRIER.

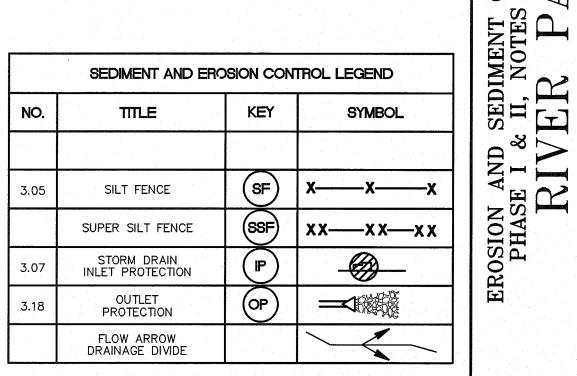
INLET PROTECTION WILL BE CHECKED FOR DETERIORATION AND REPLACED AS OUTLET PROTECTION WILL BE CHECKED FOR DETERIORATION AND UNDERMINING AND

SHALL BE REPLACED AS NEEDED. AS GRADING PROGRESSES, FIELD ADJUSTMENTS SHALL BE MADE TO PERIMETER CONTROLS TO ACCOMMODATE CHANGING DRAINAGE PATTERNS AND TO FACILITATE

POSITIVE DRAINAGE TO SEDIMENT BASINS. GIVEN SITE CONSTRAINTS AND THE INABILITY TO INCORPORATE A FULL CONSTRUCTION ENTRANCE, CARE MUST BE TAKEN TO PREVENT INCIDENTAL MUD FROM BEING TRACKED ONTO TOWN STREETS. CONTRACTOR TO ENSURE THAT ANY MUD TRACKED ONTO PUBLIC STREETS WILL BE IMMEDIATELY BROOMED/SHOVELED

WORKING DAY, AND PRIOR TO ANY FORECAST PRECIPITATION. FOR CONSTRUCTION SEQUENCING SEE SHEET 03

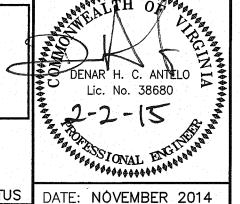
OR OTHERWISE REMOVED FROM THE ROAD SURFACE AT THE END OF EACH



REFER TO E&S NARRATIVE AND VIRGINIA STATE EROSION & SEDIMENT CONTROL HANDBOOK FOR MORE INFORMATION.

THIS SHEET IS TO BE USED FOR **EROSION/SILTATION CONTROL** AND DRAINAGE DIVIDES ONLY !!!

DATE



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ENGINEERING GROUPE PROJECT STATUS

SCALE: 1"=20" FSIGNER: RAFTSMAN: \_\_\_D.M.P. FILE NO. SP-280 SHEET **09** OF **10 ACTION** 

GRAPHIC SCALE ( IN FEET ) 1 inch = 20 ft.